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Figure 1

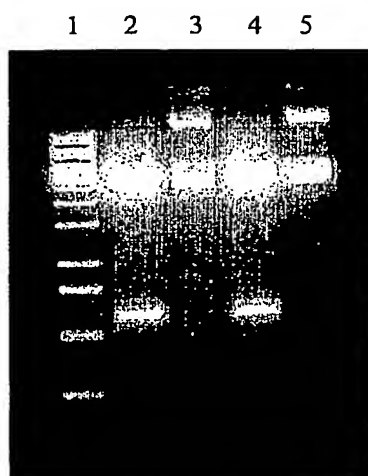
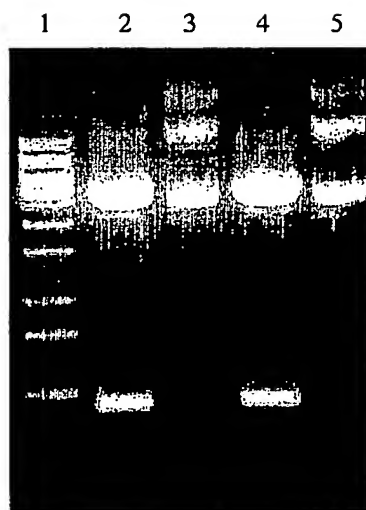


Figure 2



### Figure 3A

Query: 40 EGRAAELARKLEATASAKNLVEQDXXXXXXXXXXXXXIAEVRAAELAGVLEATAAAKTAV 99  
E RAAELA +LEATA+AK+ EQD +E RAAELA LEATAAAK +  
Sbjct: 712 EERAAELASQLEATAAAKSSAEQDRENT RATLEQQLRESEARAAELASQLEATAAAKMSA 771

Query: 100 EQERERTRAAALXXXXXXXXXXXXXXXXXXXXXXXXXKTSVEQXXXXXXXXXXXXXXXXXXXX 159  
EQ+RE TRA L K S EQ  
Sbjct: 772 EQDRENT RATLEQQLRDSEERAAELASQLESTTAAKMSAEQDRESTRATLEQQLRDSEER 831

Query: 160 XXXXXXXXKSTAAVKSAMEQDRENT RAT 187  
+ST A K + EQDRE+TRAT  
Sbjct: 832 AAELASQLESTTAAKMSAEQDRESTRAT 859

### Figure 3B

Query: 29 EQEREKTRTALE-----GRAAELARKLEATASAKNLVEQDXXXXXXXXXXXXXIAEVR 81  
EQ+RE TR LE RAAELA +LEATA+AK EQD +E R  
Sbjct: 733 EQDRENT RATLEQQLRESEARAAELASQLEATAAAKMSAEQDRENT RATLEQQLRDSEER 792

Query: 82 AAELAGVLEATAAAKTAVEQERERTRAAALXXXXXXXXXXXXXXXXXXXXXXXXXKTSVEQX 141  
AAELA LE+T AAK + EQ+RE TRA L K S EQ  
Sbjct: 793 AAELASQLESTTAAKMSAEQDRESTRATLEQQLRDSEERAAELASQLESTTAAKMSAEQD 852

Query: 142 XXXXXXXXXXXXXXXXXXXXXXXXXXXXKSTAAVKSAMEQDRENT RAT 187  
+ST A K + EQDRE+TRAT  
Sbjct: 853 RESTRATLEQQLRESEERAAELASQLESTTAAKMSAEQDRESTRAT 898

### Figure 3C

Query: 29 EQEREKTRTALEG-----RAAELARKLEATASAKNLVEQDXXXXXXXXXXXXXXXXXIAEVR 81  
EQ+RE TR LE RAAELA +LE+T +AK EQD +E R  
Sbjct: 772 EQDRENT RATLEQQLRDSEERAAELASQLESTTAAKMSAEQDRESTRATLEQQLRDSEER 831

Query: 82 AAELAGVLEATAAAKTAVEQERERTRALXXXXXXXXXXXXXXXXXXXXXXXXXKTSVEQX 141  
AAELA LE+T AAK + EQ+RE TRA L K S EQ  
Sbjct: 832 AAELASQLESTTAAKMSAEQDRESTRATLEQQLRSEERAAELASQLESTTAAKMSAEQD 891

Query: 142 XXXXXXXXXXXXXXXXXXXXXXXXXXXXKSTAAVKSAMEQDRENT RA 186  
++TAA KS+ EQDRENT RA  
Sbjct: 892 RESTRATLEQQLRDSEERAAELASQLEATAAAKSSAEQDRENT RA 936

### Figure 3D

Query: 40 EGRAAELARKLEATASAKNLVEQDXXXXXXXXXXXXXXXXXIAEVRAAELAGVLEATAAAKTAV 99  
E RAAELA +LEATA+AK+ EQD +E RAAELA LEATAAAK +  
Sbjct: 712 EERAELASQLEATAAAKSSAEQDRENT RATLEQQLRSEERAAELASQLEATAAAKMSA 771

Query: 100 EQERERTRALXXXXXXXXXXXXXXXXXXXXXXXXXKTSVEQXXXXXXXXXXXXXXXXXXXXX 159  
EQ+RE TRA L K S EQ  
Sbjct: 772 EQDRENT RATLEQQLRDSEERAAELASQLESTTAAKMSAEQDRESTRATLEQQLRDSEER 831

Query: 160 XXXXXXXXKSTAAVKSAMEQDRENT RAT 187  
+ST A K + EQDRE+TRAT  
Sbjct: 832 AAELASQLESTTAAKMSAEQDRESTRAT 859

### Figure 3E

Query: 29 EQEREKTRTALE-----GRAELARKLEATASAKNLVEQDXXXXXXXXXXXXXIAEVR 81  
EQ+RE TR LE RAAELA +LEATA+AK EQD +E R  
Sbjct: 733 EQDRENTATLEQQLRSEERAAELASQLEATAAAKMSAEQDRENTATLEQQLRDSEER 792

Query: 82 AAELAGVLEATAAAKTAVEQERERTRALXXXXXXXXXXXXXXXXXXXXXKTSVEQX 141  
AAELA LE+T AAK + EQ+RE TRA L K S EQ  
Sbjct: 793 AAELASQLESTTAAKMSAEQDRESTRATLEQQLRDSEERAAELASQLESTTAAKMSAEQD 852

Query: 142 XXXXXXXXXXXXXXXXXXXXXXXXKSTAAVKSAMEQDRENTAT 187  
+ST A K + EQDRE+TRAT  
Sbjct: 853 RESTRATLEQQLRSEERAAELASQLESTTAAKMSAEQDRESTRAT 898

### Figure 3F

Query: 29 EQEREKTRTALEG-----RAELARKLEATASAKNLVEQDXXXXXXXXXXXXXIAEVR 81  
EQ+RE TR LE RAAELA +LE+T +AK EQD +E R  
Sbjct: 772 EQDRENTATLEQQLRDSEERAAELASQLESTTAAKMSAEQDRESTRATLEQQLRDSEER 831

Query: 82 AAELAGVLEATAAAKTAVEQERERTRALXXXXXXXXXXXXXXXXXXXXXKTSVEQX 141  
AAELA LE+T AAK + EQ+RE TRA L K S EQ  
Sbjct: 832 AAELASQLESTTAAKMSAEQDRESTRATLEQQLRSEERAAELASQLESTTAAKMSAEQD 891

Query: 142 XXXXXXXXXXXXXXXXXXXXXXXXKSTAAVKSAMEQDRENTA 186  
++TAA KS+ EQDRENTA  
Sbjct: 892 RESTRATLEQQLRDSEERAAELASQLEATAAAKSSAEQDRENTA 936

Figure 4

LCIMM	121	GAGCAGCAGCTTCGCGAATCCGAGGCGCGCTGCGGAGCTGGCGAGCCAGCTGGAGGCC	180
KEIMM	1	-----	1
DDIMM	1	GAGCAGCAGCTTCGCGAATCCGAGGCGCGCTGCGGAGCTGAAAGCCGAGCTGGAGGCC	60
LCIMM	181	ACTGCTGCTGCGAAGATGTCAGCGGAGCAGGACCGCGAGAACACGAGGGCCACGCTAGAG	240
KEIMM	1	-----GAG	3
DDIMM	61	ACTGCTGCTGCGAAGACGTCGGTGGAGCAGGAGCGTGAGAAGAC-----GAG	107
LCIMM	241	CAGCAGCTTCGTGACTCCGAGGAGCGCGCTGCGGAGCTGCGAGCCAGCTGGAGTCCACT	300
KEIMM	4	CAGCAGCTTCGTGACTCCGAGGAGCGCGCTGCGGAGCTGATGCGGAAGTTAGAGGCGACT	63
DDIMM	108	GA-CGGCTCTG-----GAGGGCGCGCTGCGGAGCTCGCTCGCAAACTGGAGGCGACT	159
LCIMM	301	ACTGCTGCGAAGATGTCAGCGGAGCAGGACCGCGAGAGCAGGAGGGCCACGCTAGAGCAG	360
KEIMM	64	GCTGCTGCGAAGTCCTCGGCGGAGCAGGACCGCGAGAACACGAGGGCCACGCTGGAGCAG	123
DDIMM	160	GCTTCTGCGAAGAAATGTGTTAGAGCAGGACCGCGAGAGGACGAGGGCCACCTTGGAGGAA	219
LCIMM	361	CAGCTTCGTGACTCCGAGGAGCGCGCTGCGGAGCTGGCGAGCCAGCTGGAGTCCACTACT	420
KEIMM	124	CAGCTTCGCGAATCCGAGGAGCAGCTGCGGAGCTGAAGGCCACGCTGGAGTCCACTGCT	183
DDIMM	220	CGACTTCGTATTGCTGAGGTGCGCGCTGCGGAGCTGGCAGGAGTGCTGGAGGCCACTGCT	279
LCIMM	421	GCTGCGAAGATGTCAGCGGAGCAGGACCGCGAGAGCAGGAGGGCCACGCTAGAGCAGCAG	480
KEIMM	184	GCTGCGAAGACGTCGCGGAGCAGGACCGCGAGAACACGAGGGCCGCGTTGAGCAGCGG	243
DDIMM	280	GCTGCGAAGACGGCGCTGGAGCAGGAGCGTGAGAGGACGAGGGCCGCTTGAGCAGCAG	339
LCIMM	481	CTTCGCGAATCCGAGGAGCGCGCTGCGGAGCTGGCGAGCCAGCTGGAGTCCACTACTGCT	540
KEIMM	244	CTTCGCGAATCCGAGGAGCGCGCTGCGGAGCTGGCGAGCCAGCTGGAGGCCACTGCTGCT	303
DDIMM	340	CTTCGCGAATCCGAGGAGCGCGCTGCGGAGCTGGCTGCGCAGCTGGAAGCGCTGCTGCG	399
LCIMM	541	GCGAAGATGTCAGCGGAGCAGGACCGCGAGAGCACGAGGGCCACGCTAGAGCAGCAGCTT	600
KEIMM	304	GCGAAGTCGTTCGGCGGAGCAGGACCGCGAGAACACGAGGGCCACGCTAGAGCAGCAGCTT	363
DDIMM	400	GCGAAGACGTCGCTGGAGCAGGAGCGTGAGAACACGAGGGCCACCTTGGAGCAGCGGTTG	459
LCIMM	601	CGTGACTCCGAGGAGCGCGCTGCGGAGCTGGCGAGCCAGCTGGAGGCCACTGCTGCTGCG	660
KEIMM	364	CGCGAATCCGAGGCGCGCGCTGCGGAGCTGGCGAGTCAGCTGGAGTCCACTGCTGCTGCG	423
DDIMM	460	CGGCTCGCTGAGGTCGCGCTGCGGAGCTGGCAGCGCGCTAAAGAGCACTGCTGCTGTT	519
LCIMM	661	AAGTCGTTCGGCGGAGCAGGACCGCGAGAACACGAGGGCCGCGTTGGAGCAGCAGCTTCGT	720
KEIMM	424	AAGTCGTTCGGCGGAGCAGGACCGCGAGAACACGAGGGCCACG-----	465
DDIMM	520	AAGTCGCGATGGAGCAGGACCGCGAGAACACGAGGGCCACG-----	561

Figure 5

LCIMM 1 LEQQLRESEERAAELASQLEATAAAKSSAEQDRENTTRATLEQQLRESEERAAELASQLEA 60  
KEIMM 1 -EQQLRDSEERAAELMRLEATAAAKSSAEQDRENTTRATLEQQLRESEERAAELKACLES 59  
DDIMM 1 -EQQLRESEERAAELKAELEATAAAKTSVEQEREKTRTALEG-----RAAEIARKLEA 52

LCIMM 61 TAAAKMSAEQDRENTTRATLEQQLRDSEERAAELASQLESTTAAKMSAEQDRESTRATLEQ 120  
KEIMM 60 TAAAKTSAEQDRENTTRATLEQQLRDSEERAAELASQLEATAAAKSSAEQDRENTTRATLEQ 119  
DDIMM 53 TASAKNLVEQDRENTTRATLEERLRRLAEVRAAELAGVLEATAAAKTAVEQERERTRAALEQ 112

LCIMM 121 QLRDSEERAAELASQLESTTAAKMSAEQDRESTRATLEQQLRESEERAAELASQLESTTA 180  
KEIMM 120 QLRSEERAAELASQLESTTAAKSSAEQDRENTTRAT----- 155  
DDIMM 113 QLRSEERAAELASQLEATAAAKTSVEQERENTTRATLEERLRRLAEVRAAELAAARKSTAA 172

LCIMM 181 AKMSAEQDRESTRATLEQQLRDSEERAAELASQLEATAAAKSSAEQDRENTTRAALEQQLR 240  
KEIMM 155 ----- 155  
DDIMM 173 VKSAMEQDRENTTRAT----- 187

Figure 6

LCIMM 1 LEQQLRESEERAAELASQLEATAAAKSSAEQDRENTTRATLEQQLRESEERAAELASQLEA 60  
DDIMM 1 -----EQQLRESEERAAELKAELEA 20

LCIMM 61 TAAAKMSAEQDRENTTRATLEQQLRDSEERAAELASQLESTTAAKMSAEQDRESTRATLEQ 120  
DDIMM 21 TAAAKTSVEQEREKTRTALEG-----RAAEIARKLEATASAKNLVEQDRENTTRATLEQ 73

LCIMM 121 QLRDSEERAAELASQLESTTAAKMSAEQDRESTRATLEQQLRESEERAAELASQLESTTA 180  
DDIMM 74 RLRLAEVRAAELAGVLEATAAAKTAVEQERERTRAALEQQLRESEERAAELASQLEATAA 133

LCIMM 181 AKMSAEQDRESTRATLEQQLRDSEERAAELASQLEATAAAKSSAEQDRENTTRAALEQQLR 240  
DDIMM 134 AKTSVEQERENTTRATLEERLRRLAEVRAAELAAARKSTAAVKSAMEQDRENTTRAT----- 187

Figure 7

KEIMM 1 EQQLRDSEERAAELMRKLEATAAAKSSAEQ----- 30  
DDIMM 1 EQQLRESEERAAELKAELEATAAAKTSVEQEREKTRTALEGRAAELARKLEATASAKNLV 60

KEIMM 30 --DRENTRATLEEQQLRESEERAAELKAELEATAAAKTSVEQEREKTRTALEGRAAELARKLEATASAKNLV 88  
DDIMM 61 EQDRERTRATLEERLRILAEVRAAELAGVLEATAAAKTAVEQEREKTRTALEEQQLRESEER 120

KEIMM 89 AAELASOLEATAAAKSSAEQDRENTRATLEEQQLRESEERAAELASOLEATAAAKSSAEQD 148  
DDIMM 121 AAELAAQLEAAAAAKTSVEQDRENTRATLEERLRILAEVRAAELAAELKSTAAVKSSAEQD 180

KEIMM 149 RENTRAT 155  
DDIMM 181 RENTRAT 187

Figure 8

1 10 20 30 39

KEQQLRDSEETRAAELKAELEATAAAKTSVEQEREKTRTA  
L GRAAELARKLEATASAKNLVEQDRERTRATLERLRI  
A V GV KSA V TSM E N A QQ E  
S A AQ S L

Figure 9

1 10 20 30 39

LEQQLRDSEERAAELMRKLEATAAAKSSAEQDRENTRAT  
R E AH KAQ S T A  
AS

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Figure 10

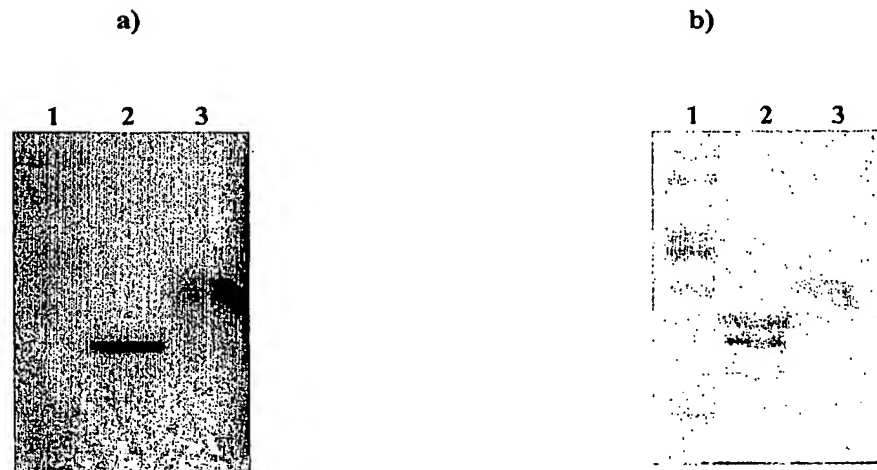
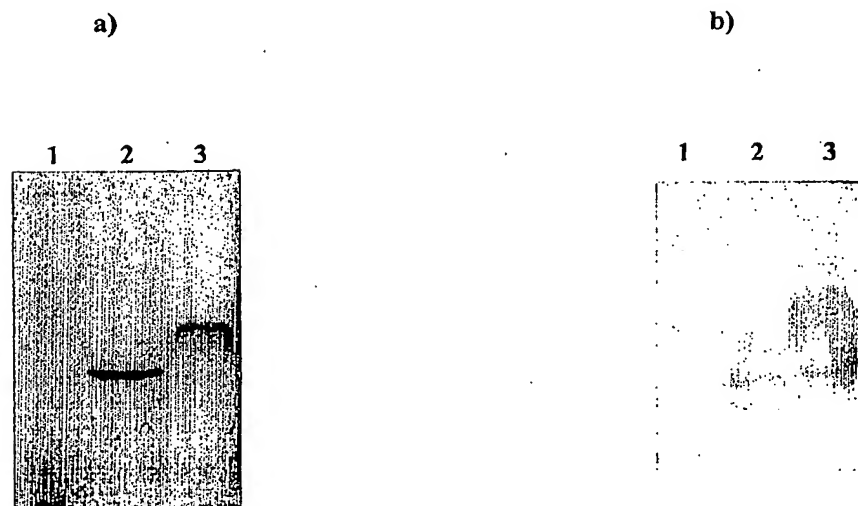


Figure 11





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Figure 12

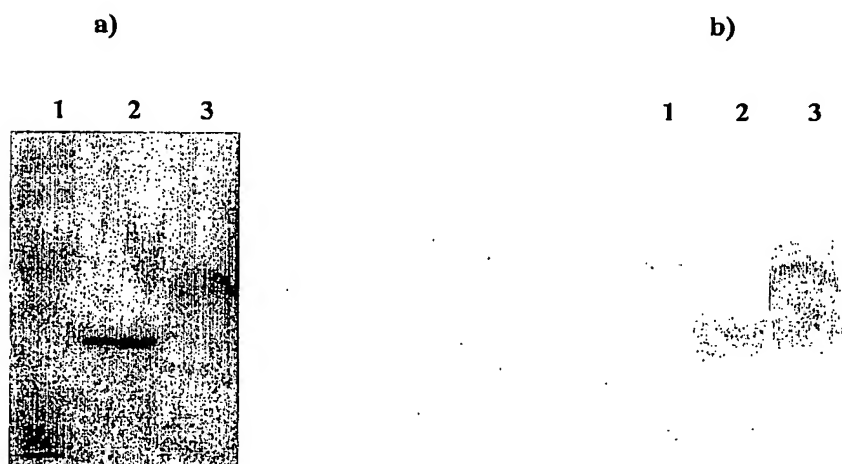
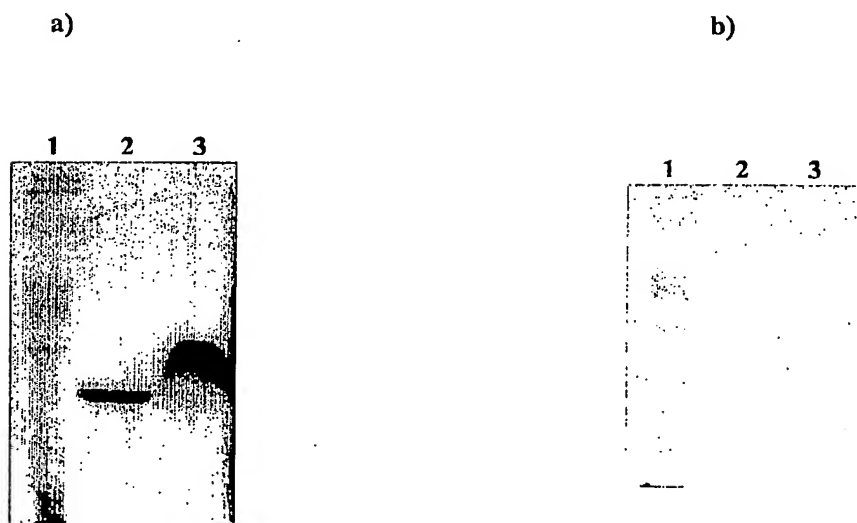


Figure 13



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Figure 14

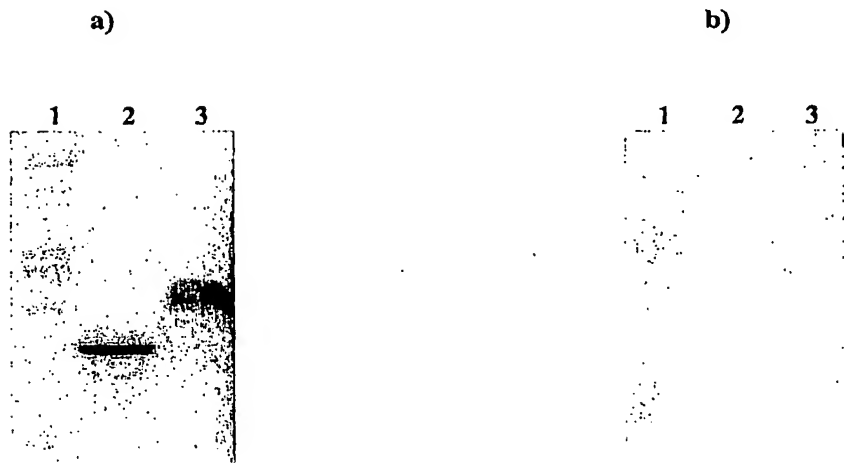
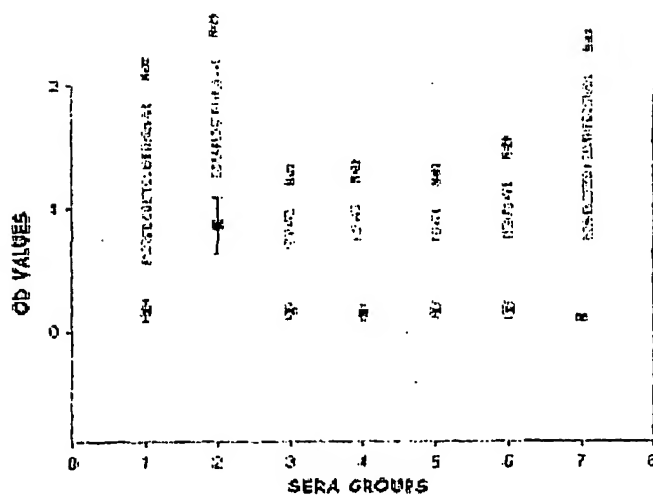
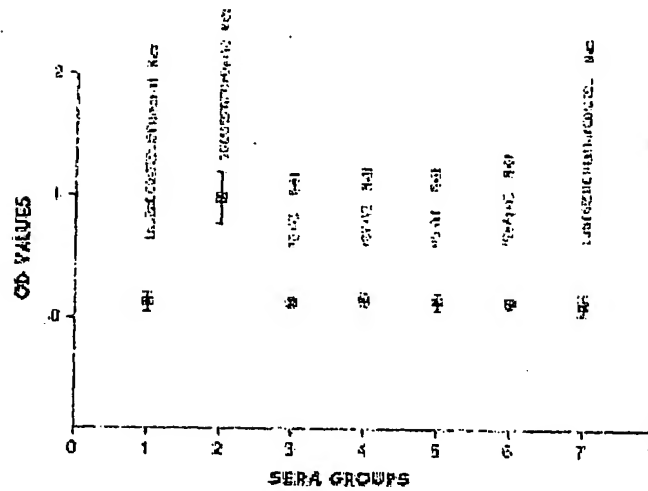


Figure 15



Mean	0.1670	0.8665	0.1634	0.1396	0.1663	0.1636	0.1080
Std.Dev	0.0882	0.2182	0.0598	0.0584	0.0534	0.0615	0.0295

Figure 16



Mean	0.1290	0.9730	0.1300	0.1545	0.1456	0.1363	0.1219
Std.Dev	0.0716	0.2096	0.0419	0.0548	0.0705	0.0456	0.0796